

Abstract of the Disclosure

An arrangement for monitoring an air-mass measuring device (1) includes an electrically driven compressor (10) in an air supply of an internal combustion engine (5). The arrangement makes possible a precise modeling of the air mass flow. An air mass flow in the air supply is modeled in dependence upon a compressor rpm and a compressor pressure ratio and is compared to an air mass flow measured by the air-mass measuring device (1). The invention is also directed to a method for monitoring the air-mass measuring device (1).